

IN THE SPECIFICATION:**BEST AVAILABLE COPY**

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[0011] The invention is directed to injection molded articles comprising an LLDPE resin produced using a single site catalyst (i.e., mLLDPE), said resin being a copolymer of ethylene and hexene, with 1-hexene preferably present from about 8 to 13 wt.% (2.8 to 4.7 mol %), characterized by an MI of about 22 to about 28 dg/min, more preferably about 24 to about 26 dg/min (ASTM D-1238, 190°C, 2.16 kg), a density of about 0.915 to about 0.918 g/cc, more preferably about 0.917 to about 0.918 g/cc (ASTM D-1505), an MFR<20 dg/min and more preferably about 16 to 17 dg/min (ASTM D-1238, ~~Condition L~~), a molecular weight distribution Mw/Mn<3 and more preferably about 2.5-3.0, an Mz/Mw<2 and more preferably about 1.7 to 1.8, and a low amount of extractables, preferably <3 wt.% C₆ extractables.

[0016] The mLLDPE copolymer resin is further characterized by an MFR (Melt Flow Ratio) of less than 20 dg/min (MFR<20 dg/min) and more preferably about 16 to 17 dg/min. When the MFR of the mLLDPE copolymer resin is referred to herein, it is measured according to ASTM D-1238, ~~Condition L~~.

[0028] Preferred articles include: (A) an injection molded article, said article comprising an mLLDPE copolymer resin of ethylene and hexene, said resin further characterized by an MI of about 22 to about 28 dg/min, a density of about 0.915 to about 0.919 g/cc, an MFR<20 dg/min, an Mw/Mn<3, an Mz/Mw<2, and <3% C₆ extractables; and more preferred embodiments including one or more of the following: wherein said copolymer resin comprises from about 8 to about 13 wt.% 1-hexene, wherein said copolymer resin is further characterized by an MI of about 24 to about 26 dg/min, wherein said copolymer resin is further characterized by a density of about 0.917 to about 0.919 g/cc, wherein said copolymer resin is further characterized by an MFR of from about 16 to about 17 dg/min, wherein said copolymer resin is further characterized by a molecular weight distribution Mw/Mn in the range of about 2.5 to about 3.0, wherein said copolymer resin further is characterized by an Mz/Mw in the range of about 1.7 to about 1.8, wherein the article is further characterized by

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having a Tensile Impact @ -40C of at least about 340 ft.-lb./in², wherein said copolymer resin is further comprised of about 1 to about 20 wt.% of a high pressure, low density polyethylene, and also wherein said copolymer resin consists essentially of about 99 to about 80 wt.% of said mLLDPE copolymer of ethylene and hexene and about 1 to about 20 wt.% of a high pressure, low density polyethylene; (B) an injection molded article comprising a container and a lid for said container, wherein said container comprises a resin selected from HDPE, polypropylene, and mixtures thereof, and said lid comprises an mLLDPE copolymer resin of ethylene and hexene, said resin further characterized by an MI of about 22 to about 28 dg/min, a density of about 0.915 to about 0.919 g/cc, an MFR<20 dg/min, an Mw/Mn<3, an Mz/Mw<2, and <3% C₆ extractables; and also one or more of the following preferred embodiments: wherein said copolymer resin of said lid comprises from about 8 to about 13 wt.% 1-hexene, wherein said copolymer resin of said lid is further characterized by an MI of about 24 to about 26 dg/min, wherein said copolymer resin of said lid is further characterized by a density of about 0.917 to about 0.919 g/cc, wherein said copolymer resin of said lid is further characterized by an MFR of from about 16 to about 17 dg/min, wherein said copolymer resin of said lid is further characterized by a molecular weight distribution Mw/Mn in the range of about 2.5 to about 3.0, wherein said copolymer resin of said lid is further characterized by an Mz/Mw in the range of about 1.7 to about 1.8, wherein said lid is further characterized by having a Tensile Impact @ -40C of at least about 340 ft.-lb./in², wherein said copolymer resin of said lid further comprising about 1 to about 20 wt.% of a high pressure, low density polyethylene, and also wherein said copolymer resin of said lid consisting essentially of about 99 to about 80 wt.% of said mLLDPE copolymer of ethylene and hexene and about 1 to about 20 wt.% of a high pressure, low density polyethylene. Additional preferred embodiments of the present invention include the use of any of the aforementioned embodiments (alone or in combination as would be readily appreciated by one of skill in the art) in frozen food storage and/or under repeated freeze/thaw cycles.